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(71) Applicant (for all designated States except US): BAND-
WIDTH FOUNDRY PTY LTD [AU/AU]; 102 National
Innovation Centre, Australian Technology Park, Eveleigh,
New South Wales 1430 (AU).

(72) Inventors; and

(75) Inventors/Applicants (for US only): BURYAK, Alexan-
der [AU/AU]; 53 Coronga Crescent, Killara, New South
Wales 2071 (AU). KOLOSSOVSKI, Kazimir [RU/AU];

72 Lachlan Street, Macquarie, Australian Capital Terri-
tory 2614 (AU). STEPANOV, Dmitrii, Yu [RU/AU]; 7/126
Croydon Avenue, Croydon Park, New South Wales, 2133
(AU).

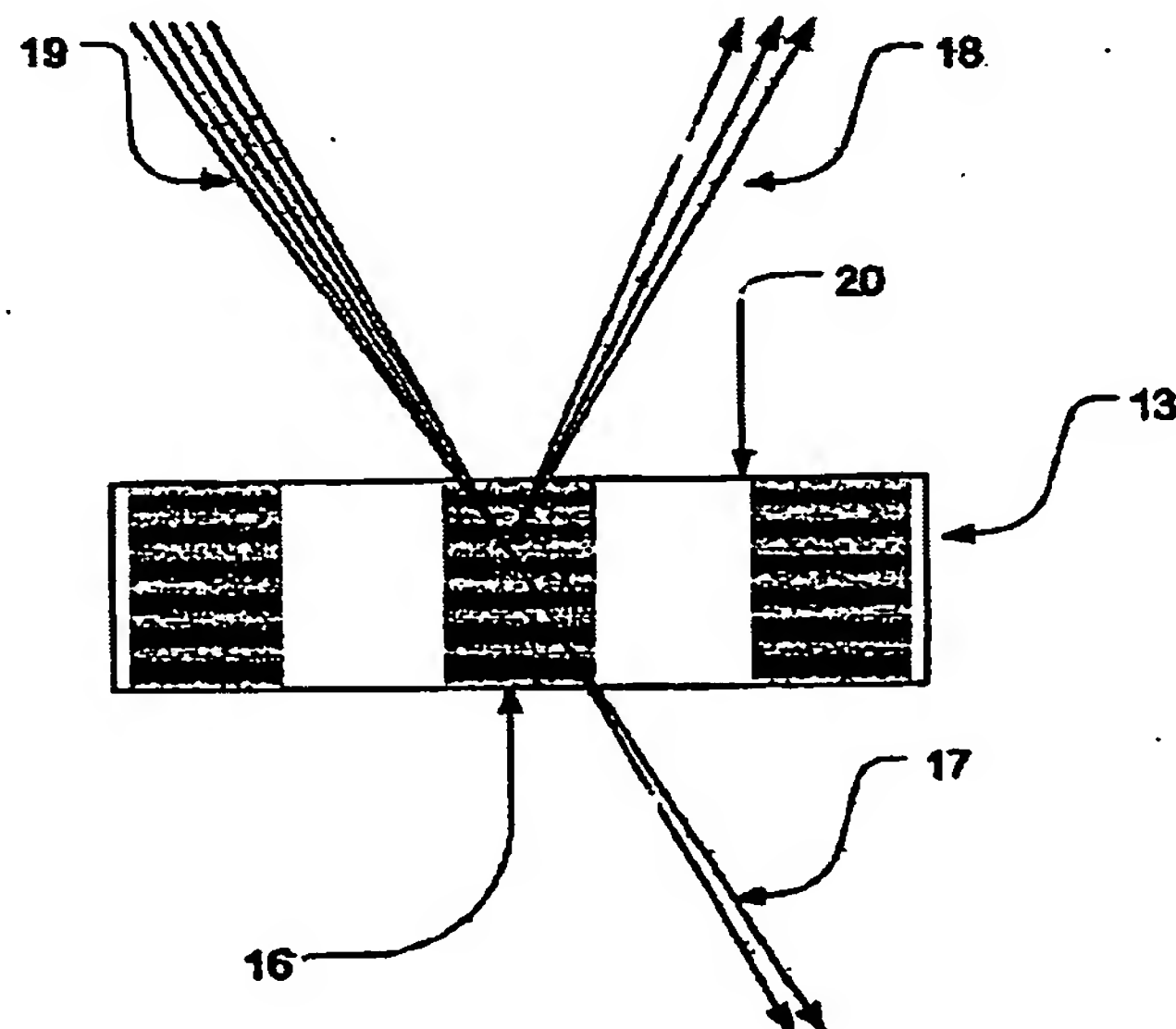
(74) Agent: FREEHILLS CARTER SMITH BEADLE;
Level 32, MLC Centre, 19-29 Martin Place, Sydney, New
South Wales 2000 (AU).

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(54) Title: OPTICAL DATA CARRIER SYSTEM



(57) Abstract: The present invention provides a method of holographically storing data as in a series of grating structures including m-level coded elements in an optical data carrier, wherein $m \geq 2$, the method comprising: forming a grating sampling function as a direct sum of N partial grating sampling functions, each partial grating sampling function having a phase (ϕ_n) and amplitude (d_n), wherein each d_n has m possible values.



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